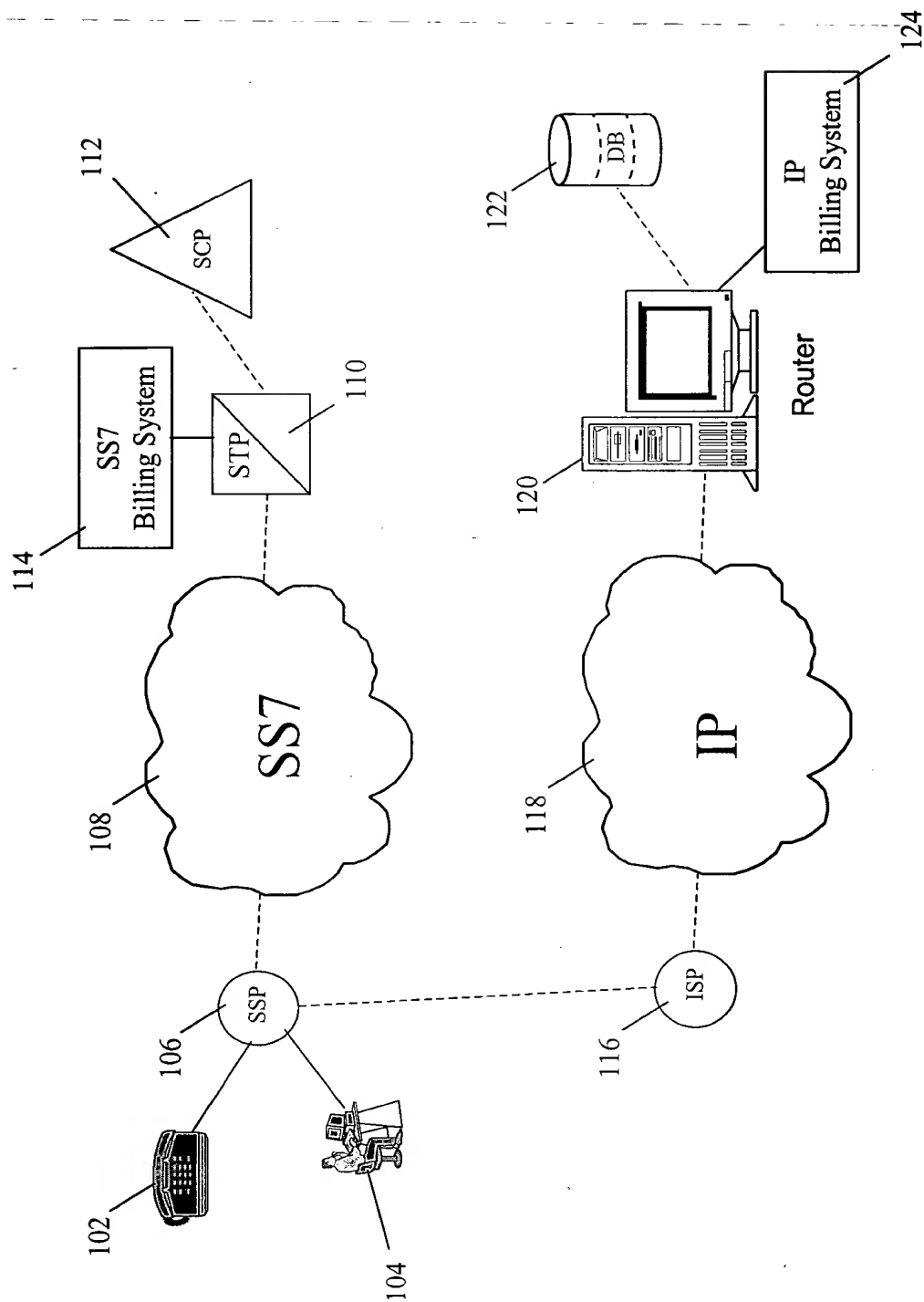


100



PRIOR ART

Figure 1

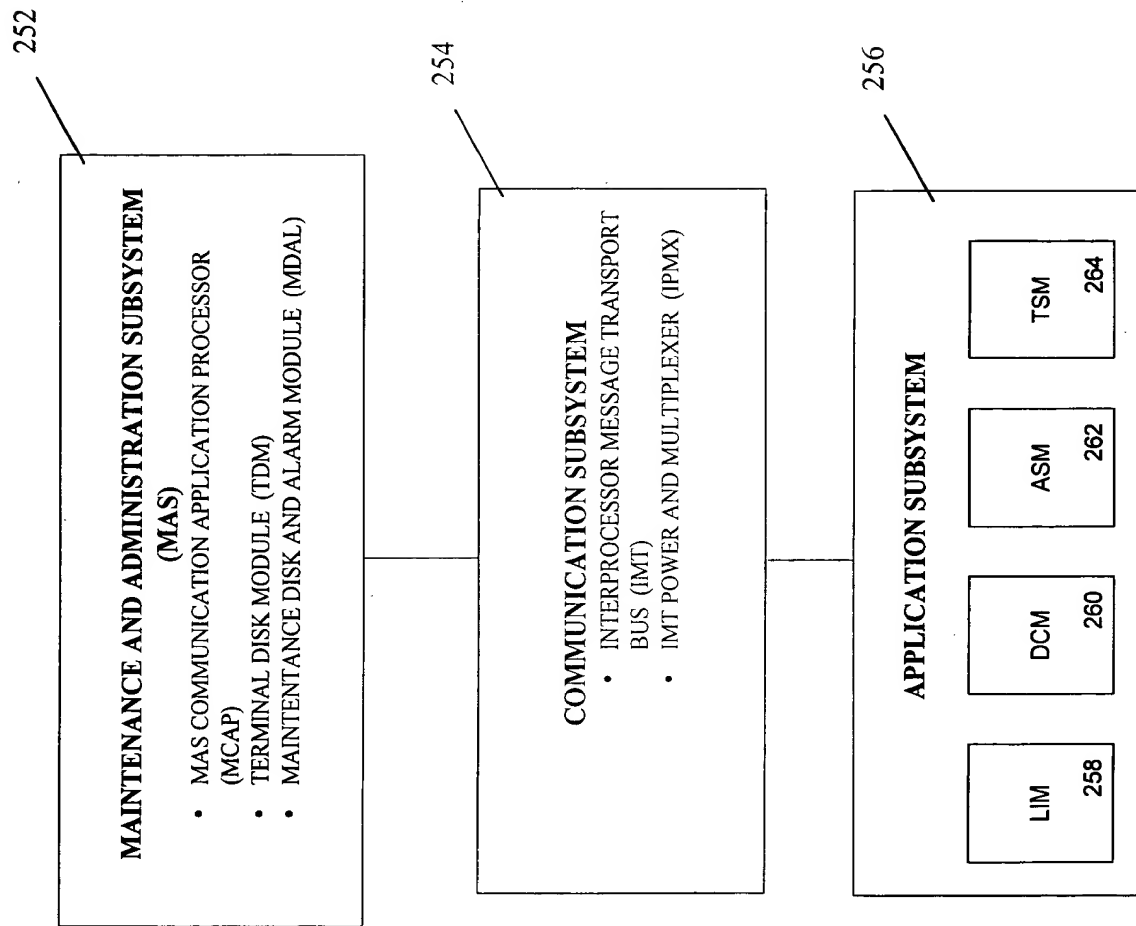


Figure 3

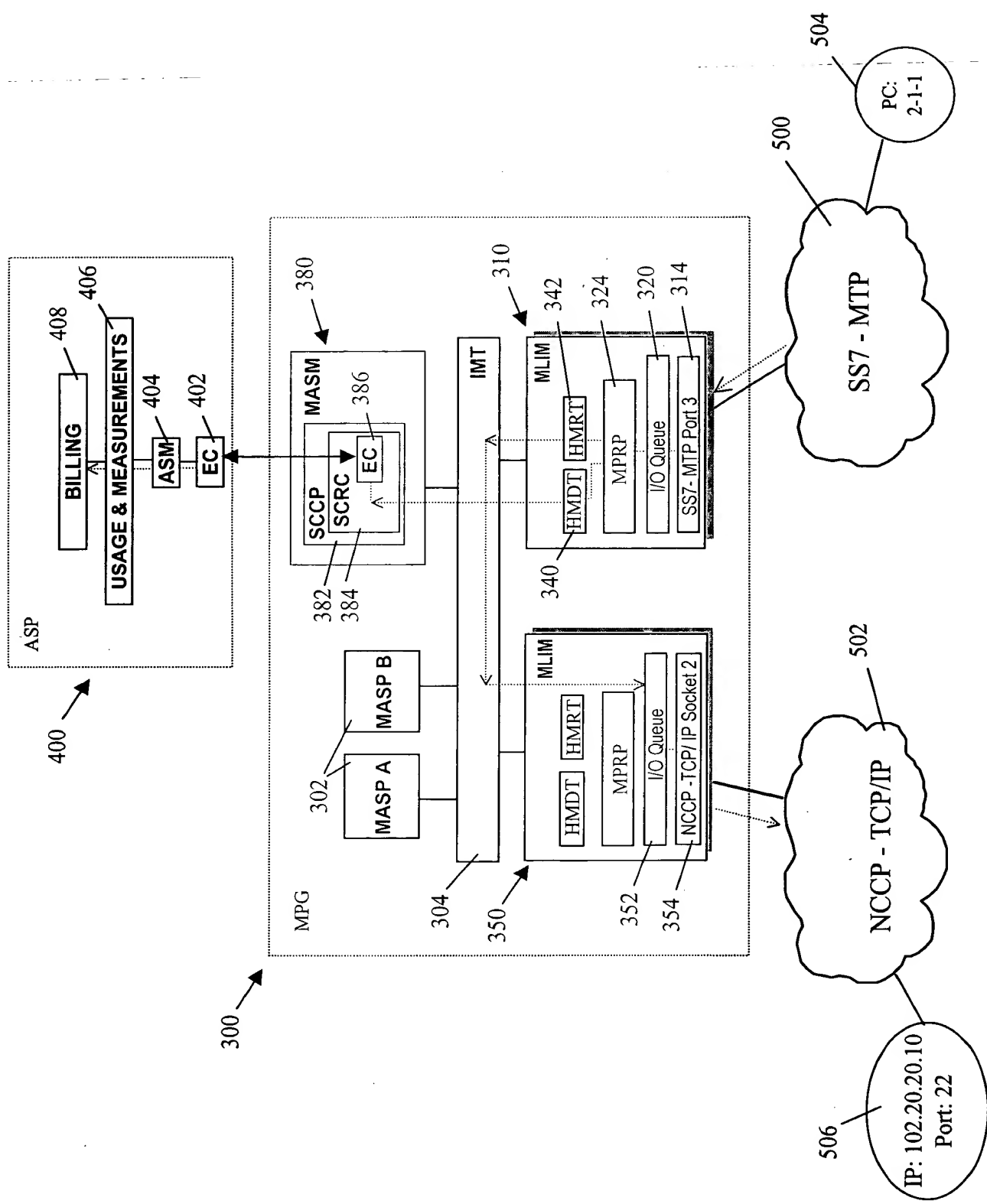


Figure 4

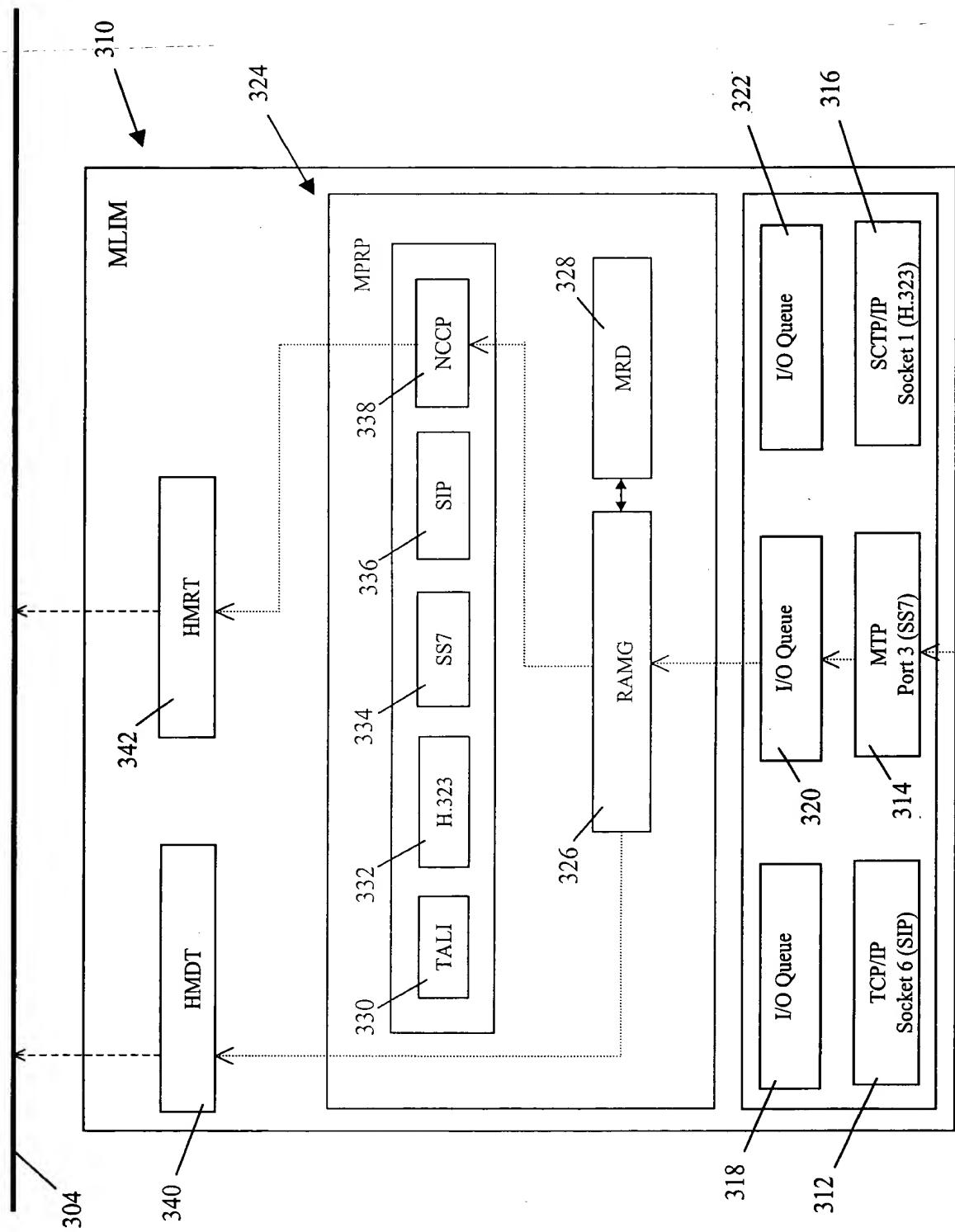


Figure 5

MRD DATABASE									
SS7 Keys					DATA FIELDS				
Key 1		Key 2							
DPC	SSN	CdPA		Signaling Protocol	PC/ IP Add.	SSN/ Port	Acct. MLIM	Outbound Socket/Port	Outbound Socket/Port
2-1-1	50	*		SS7	2-1-1	50	No 2201	5	5
1-1-1	*	*		NCCP	102.20.20.10	22	Yes 2201	1	1
*	*	9194605555		SIP	102.20.20.12	20	Yes 2201	2	2
2-1-1	78	*		NCCP	104.20.10.10	30	No 2102	8	8
2-1-2	*	*		H.323	uswest.cnaml	*	Yes 4101	1	1
3-1-1	*	*		SS7	103.23.23.10	45	Yes 3306	6	6

600

Figure 6a

602

MRD DATABASE									
IP Keys				DATA FIELDS					
Key 3		Key 4							
Host	Port	CdPA		Signaling Protocol	PC/ IP Add.	SSN/ Port	Acct. MLIM	Outbound Socket/Port	Outbound Socket/Port
101.10.10.25	23	*		SS7	2-1-1	50	No 4201	12	12
101.10.10.35	34	*		SS7	2-1-1	50	No 4101	3	3
*	*	jsmith@aol.com		SS7	2-1-1	20	Yes 4301	16	16
102.20.20.10	25	*		SIP	101.50.50.10	45	Yes 4101	6	6
102.20.20.10	23	*		H.323	102.20.20.10	23	Yes 3108	15	15
103.30.30.10	24	*		NCCP	103.30.30.10	24	No 3402	13	13
		Retailer.com		SIP	104.40.50.10	34	Yes 3301	18	18

Figure 6b

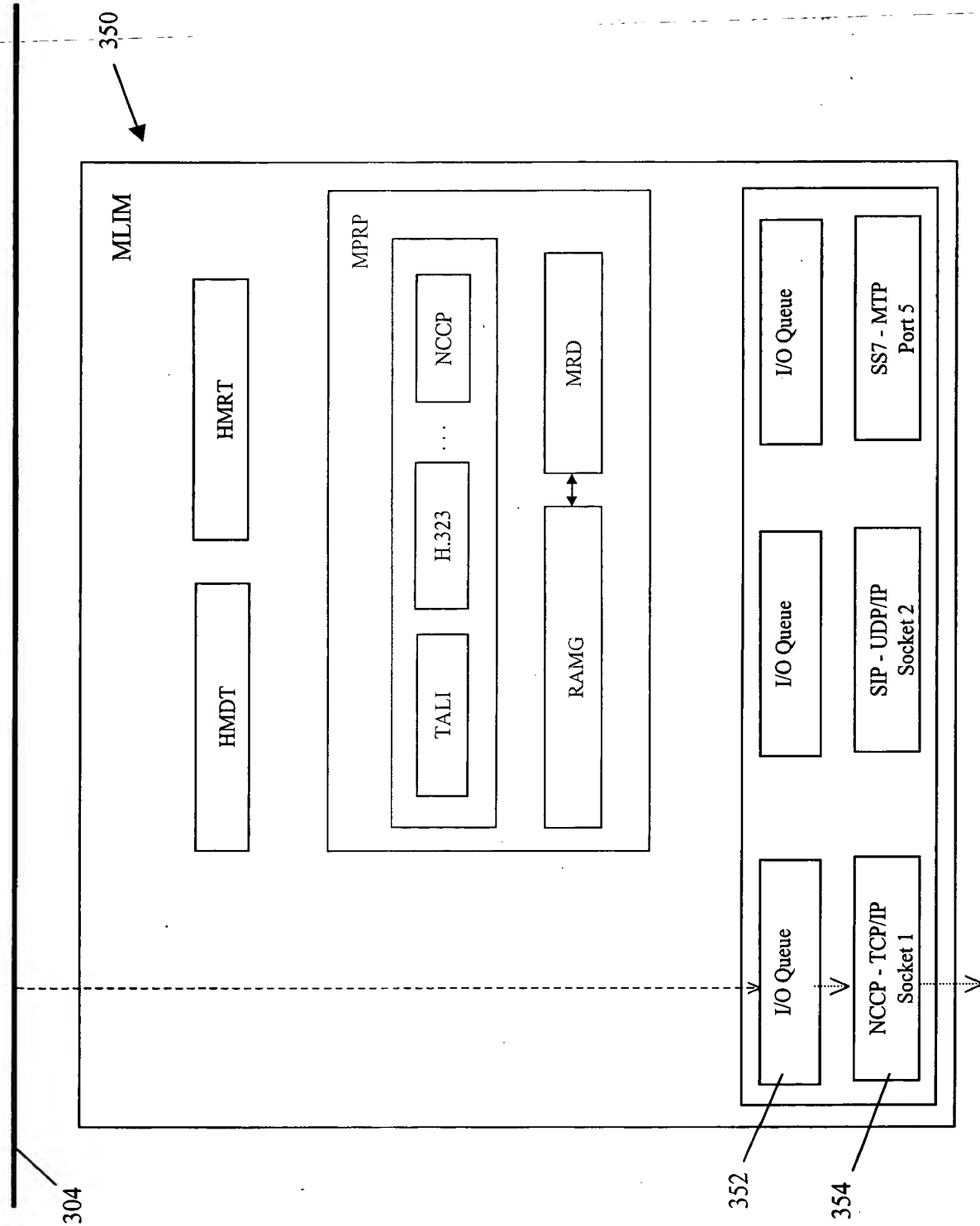


Figure 7

USAGE & MEASUREMENTS DATABASE									
Keys		DATA FIELDS							
Call ID	Time	Service Provider	Service Recipient	Service Type	CdPA	PC/IP Add.	SSN/Port	Originating	
1025	23:12.23	12	34	01	jsmith@aol.com	2-1-1	50		
1534	23:34.01	23	13	01	9194605500	102.20.20.10	23		
1632	23:36.59	12	15	03	.Retailer.com	103.30.30.10	24		

Figure 8